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														EcoRI-KOZAK			0		
														g	aat	tcc	acc		
														Asn	Ser	Thr			
→ SEQ ID NO: 3																			
atg	gta	agc	gct	att	gtt	tta	tat	gtg	ctt	ttg	gcg	gcg	gcg	gcg	cat	48			
Met	Val	Ser	Ala	Ile	Val	Leu	Tyr	Val	Leu	Leu	Ala	Ala	Ala	Ala	His				
→ SEQ ID NO: 4																			
64F1/ SEQ ID NO: 1																			
tct	gcc	ttt	gcg	gcg	gag	cac	tgc	aac	gcg	caa	atg	aag	acg	ggt	ccg	96			
Ser	Ala	Phe	Ala	Ala	Glu	His	Cys	Asn	Ala	Gln	Met	Lys	Thr	Gly	Pro				
tac	aag	att	aaa	aac	ttg	gac	att	acc	ccg	ccc	aag	gaa	acg	ctg	caa	144			
Tyr	Lys	Ile	Lys	Asn	Leu	Asp	Ile	Thr	Pro	Pro	Lys	Glu	Thr	Leu	Gln				
aag	gac	gtg	gaa	atc	acc	atc	gtg	gag	acg	gac	tac	aac	gaa	aac	gtg	192			
Lys	Asp	Val	Glu	Ile	Thr	Ile	Val	Glu	Thr	Asp	Tyr	Asn	Glu	Asn	Val				
att	atc	ggc	tac	aag	ggg	tac	tac	cag	gcg	tat	gcg	tac	aac	ggc	ggc	240			
Ile	Ile	Gly	Tyr	Lys	Gly	Tyr	Tyr	Gln	Ala	Tyr	Ala	Tyr	Asn	Gly	Gly				
tcg	ctg	gat	ccc	aac	aca	cgc	gtc	gaa	gaa	acc	atg	aaa	acg	ctg	aat	288			
Ser	Leu	Asp	Pro	Asn	Thr	Arg	Val	Glu	Glu	Thr	Met	Lys	Thr	Leu	Asn				
gtg	ggc	aaa	gag	gat	ttg	ctt	atg	tgg	agc	atc	agg	cag	cag	tgc	gag	336			
Val	Gly	Lys	Glu	Asp	Leu	Leu	Met	Trp	Ser	Ile	Arg	Gln	Gln	Cys	Glu				
gtg	ggc	gaa	gag	ctg	atc	gac	cgt	tgg	ggc	agt	gac	agc	gac	gac	tgt	384			
Val	Gly	Glu	Glu	Leu	Ile	Asp	Arg	Trp	Gly	Ser	Asp	Ser	Asp	Asp	Cys				
ttt	cgc	gac	aac	gag	ggc	cgc	ggc	cag	tgg	gtc	aaa	ggc	aaa	gag	ttg	432			
Phe	Arg	Asp	Asn	Glu	Gly	Arg	Gly	Gln	Trp	Val	Lys	Gly	Lys	Glu	Leu				
gtg	aag	cgg	cag	aat	aac	aat	cac	ttt	gcg	cac	cac	acg	tgc	aac	aaa	480			
Val	Lys	Arg	Gln	Asn	Asn	Asn	His	Phe	Ala	His	His	Thr	Cys	Asn	Lys				
tcg	tgg	cga	tgc	ggc	att	tcc	act	tcg	aaa	atg	tac	agc	agg	ctc	gag	528			
Ser	Trp	Arg	Cys	Gly	Ile	Ser	Thr	Ser	Lys	Met	Tyr	Ser	Arg	Leu	Glu				
tgc	cag	gac	gac	acg	gac	gag	tgc	cag	gta	tac	att	ttg	gac	gct	gag	576			
Cys	Gln	Asp	Asp	Thr	Asp	Glu	Cys	Gln	Val	Tyr	Ile	Leu	Asp	Ala	Glu				
ggc	aac	ccc	atc	aac	gtg	acc	gtg	gac	act	gtg	ctt	cat	cga	gac	ggc	624			
Gly	Asn	Pro	Ile	Asn	Val	Thr	Val	Asp	Thr	Val	Leu	His	Arg	Asp	Gly				
gtg	agt	atg	att	ctc	aaa	caa	aag	tct	acg	ttc	acc	acg	cgc	caa	ata	672			
Val	Ser	Met	Ile	Leu	Lys	Gln	Lys	Ser	Thr	Phe	Thr	Thr	Arg	Gln	Ile				
aaa	gct	gcg	tgt	ctg	ctc	att	aaa	gat	gac	aaa	aat	aac	ccc	gag	tcg	720			
Lys	Ala	Ala	Cys	Leu	Leu	Ile	Lys	Asp	Asp	Lys	Asn	Asn	Pro	Glu	Ser				
gtg	aca	cgc	gaa	cac	tgt	ttg	att	gac	aat	gat	ata	tat	gat	ctt	tct	768			
Val	Thr	Arg	Glu	His	Cys	Leu	Ile	Asp	Asn	Asp	Ile	Tyr	Asp	Leu	Ser				
aaa	aac	acg	tgg	aac	tgc	aag	ttt	aac	aga	tgc	att	aaa	cgc	aaa	gtc	816			
Lys	Asn	Thr	Trp	Asn	Cys	Lys	Phe	Asn	Arg	Cys	Ile	Lys	Arg	Lys	Val				

FIG. 1

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gag cac cga gtc aag aag cgg ccg ccc act tgg cgc cac aac gtt aga	864
Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg	
gcc aag tac aca gag gga gac act gcc acc aaa ggc gac ctg atg cat	912
Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His	
att caa gag gag ctg atg tac gaa aac gat ttg ctg aaa atg aac att	960
Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile	
gag ctg atg cat gcg cac atc aac aag cta aac aat atg ctg cac gac	1008
Glu Leu Met His Ala His Ile Asn Lys Leu Asn Asn Met Leu His Asp	
ctg ata gtc tcc gtg gcc aag gtg gac gag cgt ttg att ggc aat ctc	1056
Leu Ile Val Ser Val Ala Lys Val Asp Glu Arg Leu Ile Gly Asn Leu	
atg aac aac tct gtt tct tca aca ttt ttg tgc gac gac acg ttt ttg	1104
Met Asn Asn Ser Val Ser Ser Thr Phe Leu Ser Asp Asp Thr Phe Leu	
ctg atg ccg tgc acc aat ccg ccg gca cac acc agt aat tgc tac aac	1152
Leu Met Pro Cys Thr Asn Pro Pro Ala His Thr Ser Asn Cys Tyr Asn	
aac agc atc tac aaa gaa ggg cgt tgg gtg gcc aac acg gac tgc tgc	1200
Asn Ser Ile Tyr Lys Glu Gly Arg Trp Val Ala Asn Thr Asp Ser Ser	
caa tgc ata gat ttt agc aac tac aag gaa cta gca att gac gac gac	1248
Gln Cys Ile Asp Phe Ser Asn Tyr Lys Glu Leu Ala Ile Asp Asp Asp	
gtc gag ttt tgg atc ccg acc atc ggc aac acg acc tat cac gac agt	1296
Val Glu Phe Trp Ile Pro Thr Ile Gly Asn Thr Thr Tyr His Asp Ser	
tgg aaa gat gcc agc ggc tgg tgc ttt att gcc caa caa aaa agc aac	1344
Trp Lys Asp Ala Ser Gly Trp Ser Phe Ile Ala Gln Gln Lys Ser Asn	
ctc ata acc acc atg gag aac acc aag ttt ggc ggc gtc ggc acc agt	1392
Leu Ile Thr Thr Met Glu Asn Thr Lys Phe Gly Gly Val Gly Thr Ser	
ctg agc gac atc act tcc atg gct gaa ggc gaa ttg gcc gct aaa ttg	1440
Leu Ser Asp Ile Thr Ser Met Ala Glu Gly Glu Leu Ala Ala Lys Leu	
act tgc ttc atg ttt ggt cat gta gtt aac ttt gta att ata tta att	1488
Thr Ser Phe Met Phe Gly His Val Val Asn Phe Val Ile Ile Leu Ile	
gtg att tta ttt ttg tac tgt atg att aga aac cgt aat aga caa tat	1536
Val Ile Leu Phe Leu Tyr Cys Met Ile Arg Asn Arg Asn Arg Gln Tyr	
SEQ ID NO: 3 ←	
SEQ ID NO: 4 ←	
64R1/ SEQ ID NO: 2	
taa gaa ttc	1545
* Glu Phe	

FIG. 2

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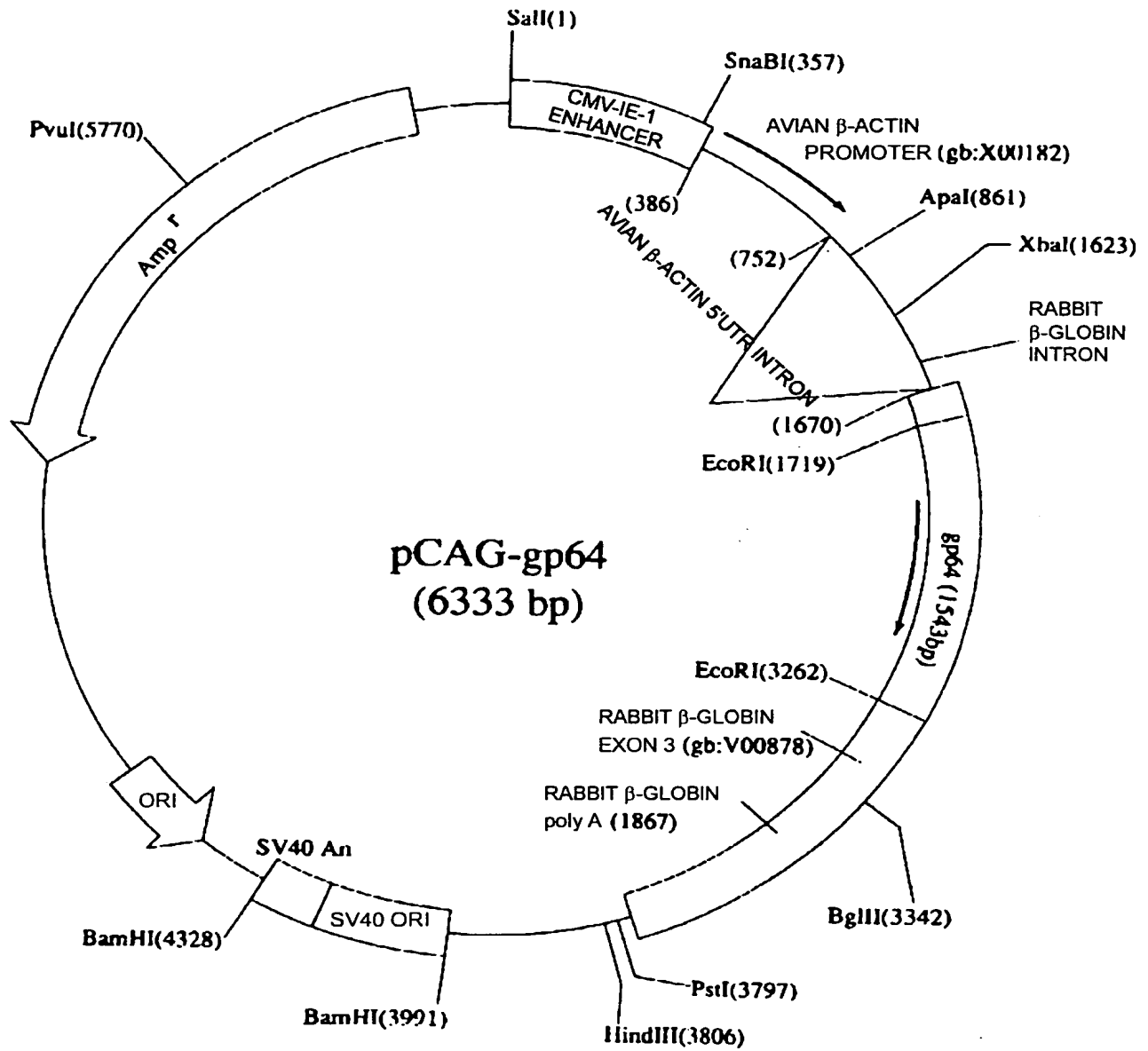


FIG. 3

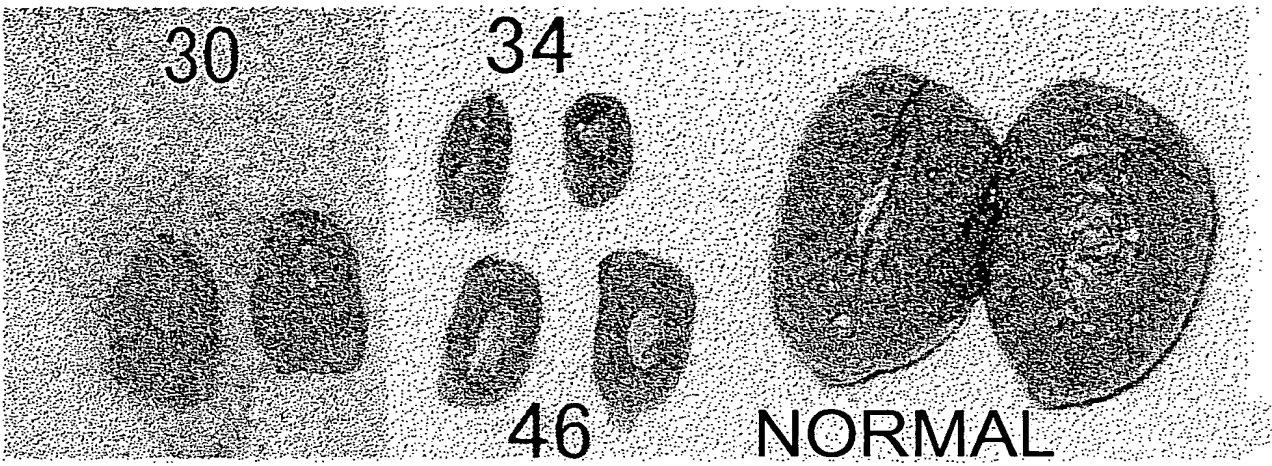


FIG. 4

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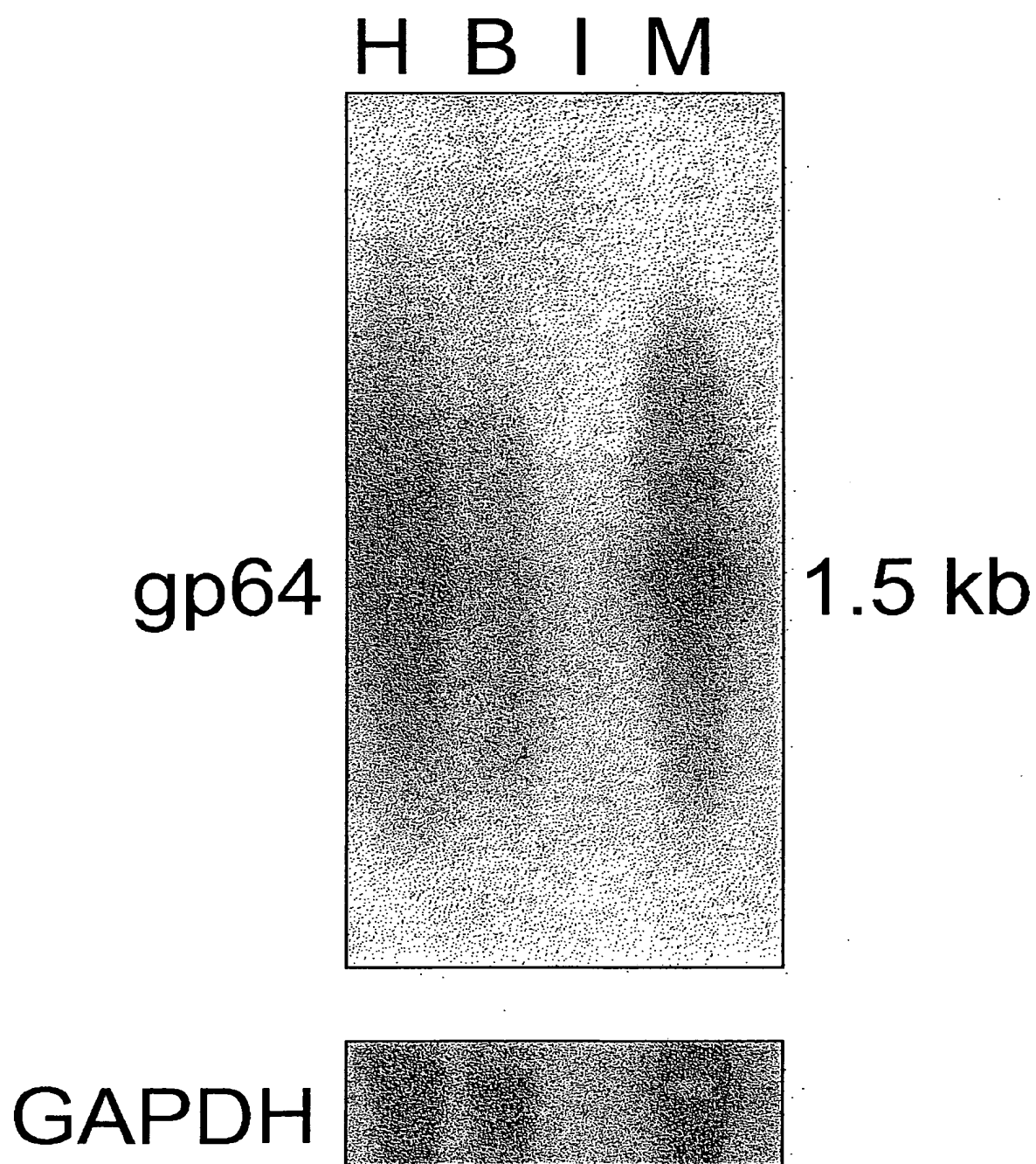


FIG. 5

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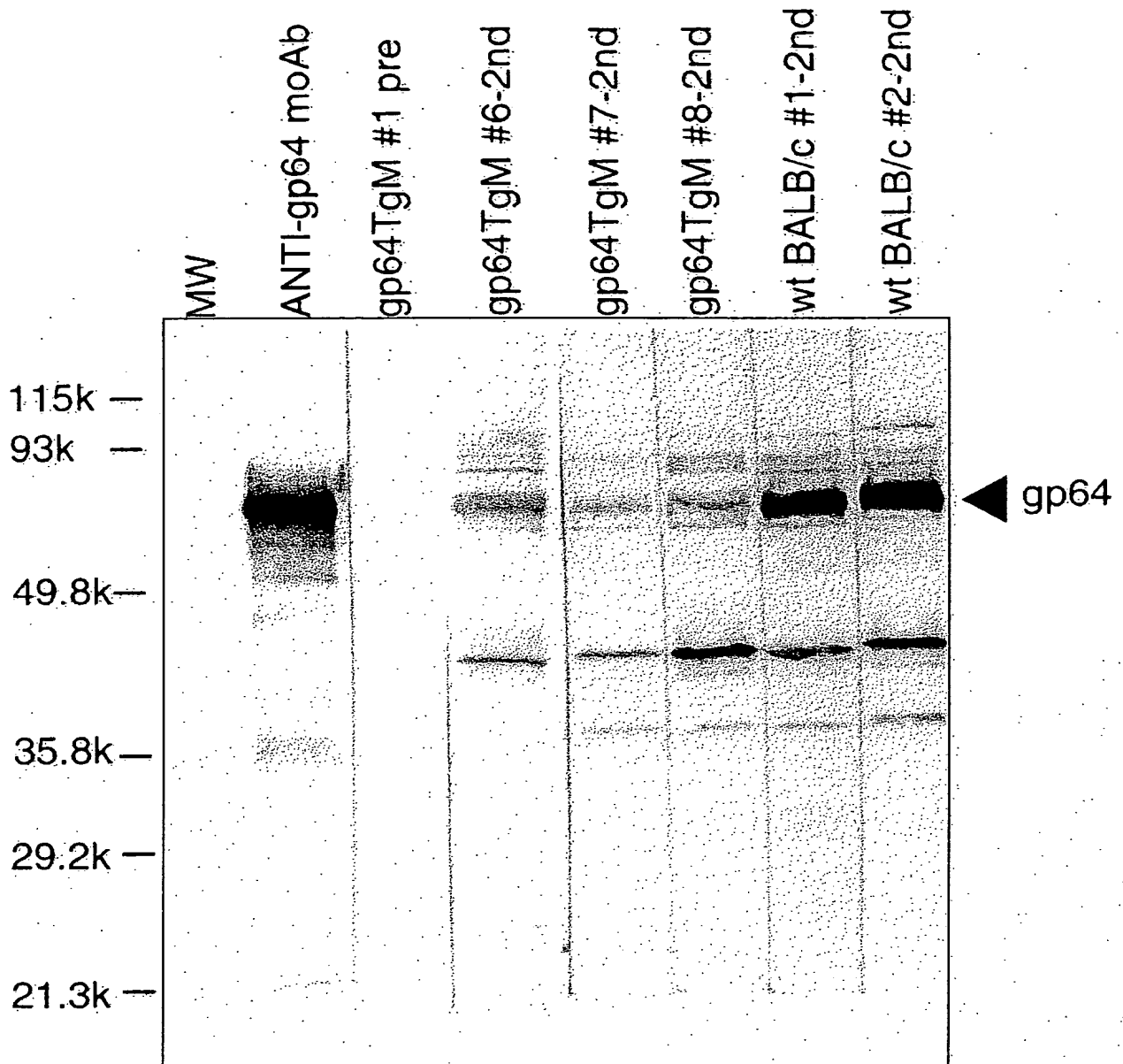


FIG. 6

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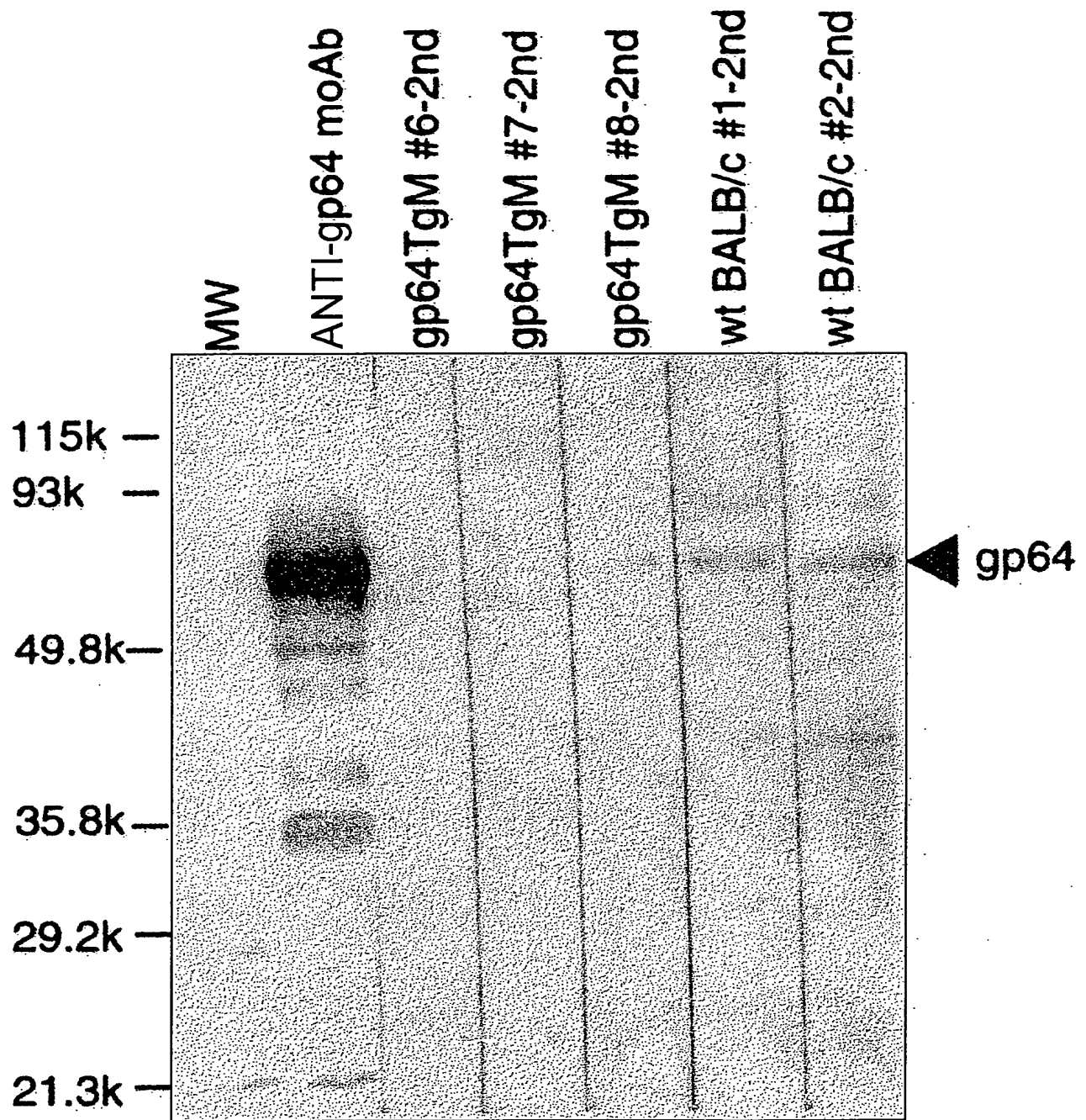
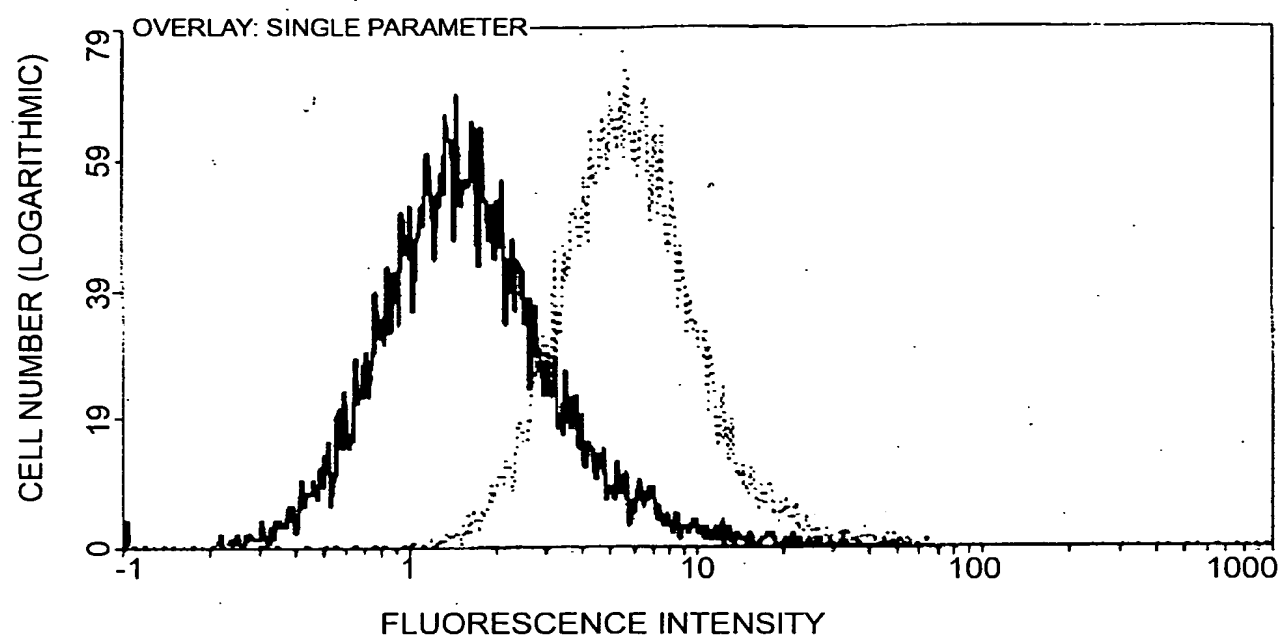


FIG. 7

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MOUSE #1



MOUSE #2

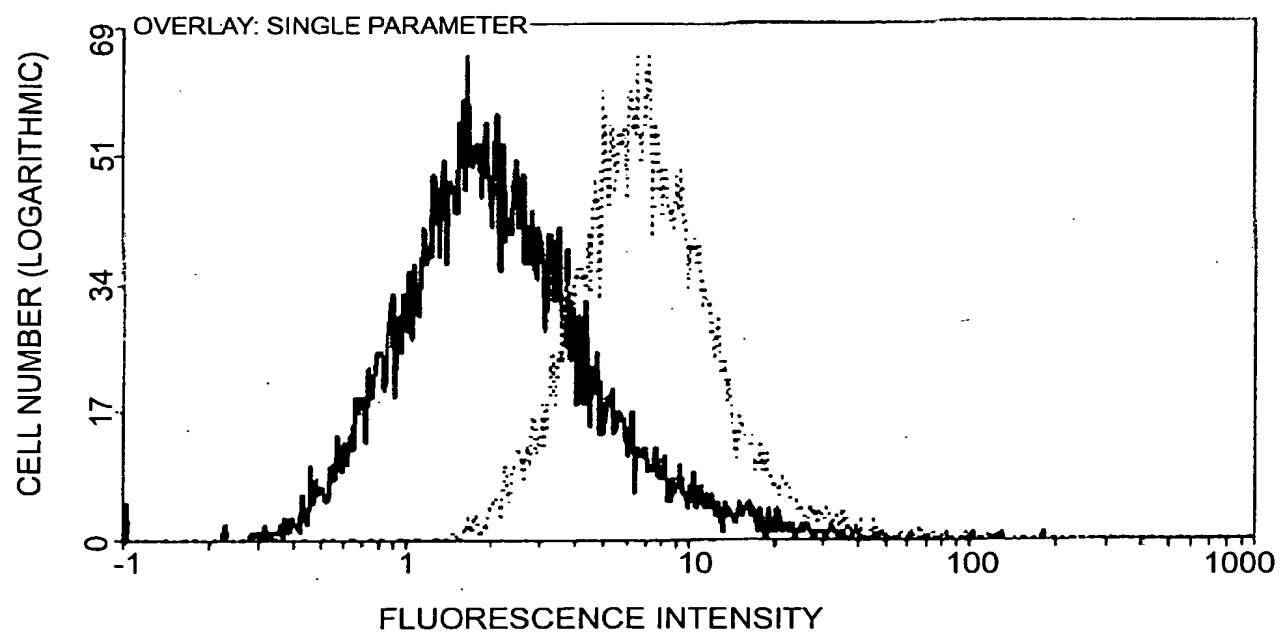
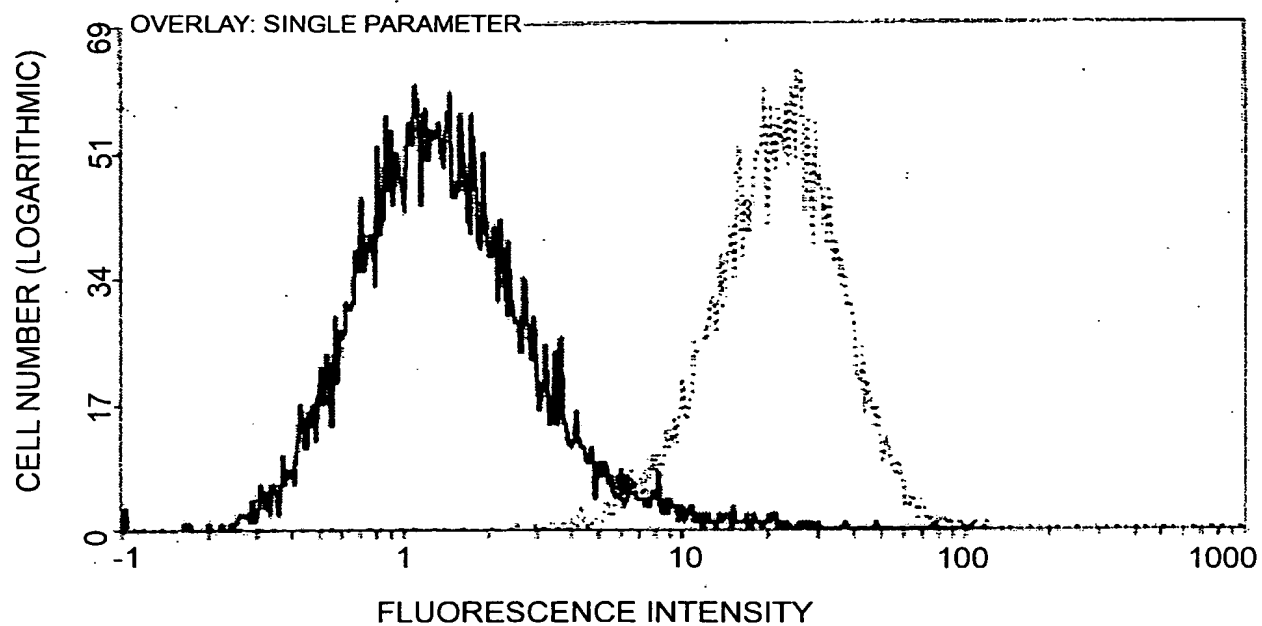


FIG. 8

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MOUSE #3



NO ANTIBODY

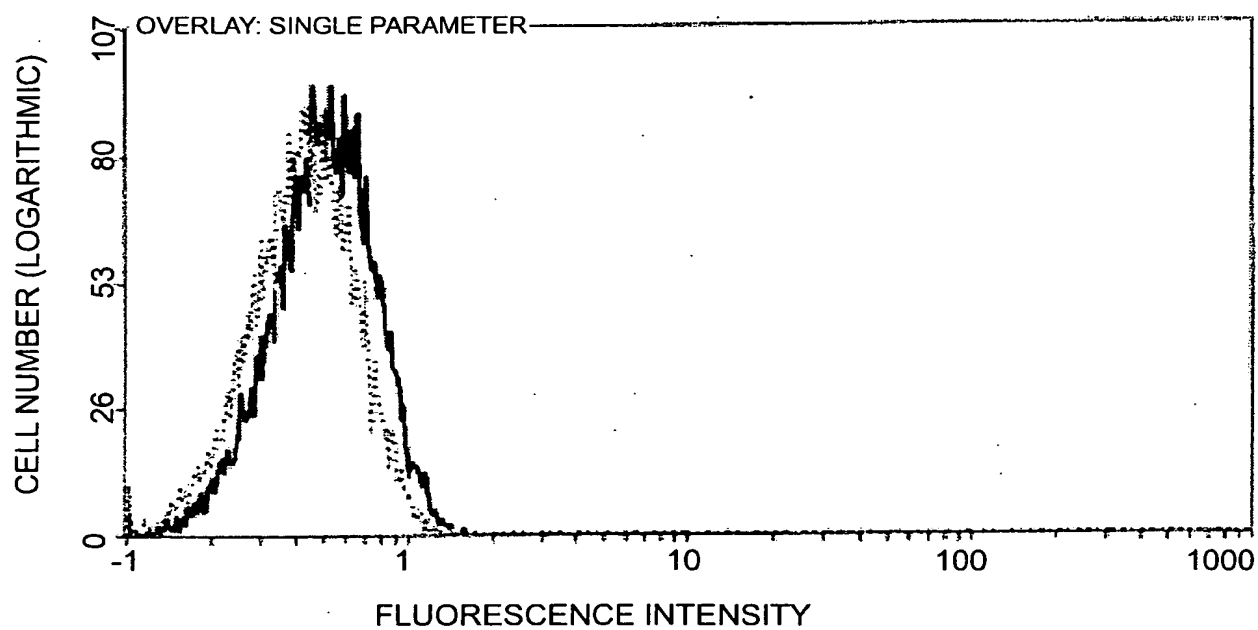


FIG. 9